

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
 United States Patent and Trademark  
 Office  
 Box PCT  
 Washington, D.C.20231  
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

<b>Date of mailing</b> (day/month/year) 06 September 2000 (06.09.00)	
<b>International application No.</b> PCT/FI99/01091	<b>Applicant's or agent's file reference</b> 49261
<b>International filing date</b> (day/month/year) 29 December 1999 (29.12.99)	<b>Priority date</b> (day/month/year) 30 December 1998 (30.12.98)
<b>Applicant</b> BÄCK, Juha et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
 20 July 2000 (20.07.00)

☐ in a notice effecting later election filed with the International Bureau on:  
 \_\_\_\_\_

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b>  Manu Berrod  Telephone No.: (41-22) 338.83.38
--	--

# TENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>49261/ML/MM</b>	<div style="display: flex; justify-content: space-between;"> <div><b>FOR FURTHER ACTION</b></div> <div>See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)</div> </div>	
International application No. <b>PCT/FI99/01091</b>	International filing date (day/month/year) <b>29/12/1999</b>	Priority date (day/month/year) <b>30/12/1998</b>
International Patent Classification (IPC) or national classification and IPC <b>H04Q7/38</b>		
Applicant <b>NOKIA NETWORKS OY et al.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>20/07/2000</b>	Date of completion of this report  <b>15.09.2000</b>
Name and mailing address of the international preliminary examining authority: <div style="display: flex; align-items: center;"> <div>             European Patent Office              D-80298 Munich              Tel. +49 89 2399 - 0 Tx: 523656 epmu d              Fax: +49 89 2399 - 4465           </div> </div>	Authorized officer  <b>Hodgins, W</b>  Telephone No. +49 89 2399 8987



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI99/01091

## I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

### Description, pages:

1-15 as originally filed

### Claims, No.:

1-22 as originally filed

### Drawings, sheets:

1/5-5/5 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/FI99/01091

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes:	Claims	1-22
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-22
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-22
	No:	Claims	

**2. Citations and explanations**

**see separate sheet**

**Concerning Point V**

- 1) The following documents are cited:  
D1: WO 99 27723 A1 (TELEFONAKTIEBOLAGET LM ERIKSSON (PUBL) 3 June 1999  
D2: WO 99 62282 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) 2 December 1999
- 2) Independent claim 1 relates to a method for managing subscriber identities in a mobile communication network where one and the same mobile station uses one or more subscriber identities.

It is known, for example in UMTS, to use more than one subscriber identity in a mobile station (cf for example UMTS telecommunications specification by the ETSI).

This leads to the problem that whilst in idle mode the mobile station has to listen to more than one paging channel; if a connection already exists, the mobile station still has to listen to the paging channel because of the other subscriber identities. This is wasteful of resources owing to the unnecessary monitoring of the paging channel.

This is overcome in the current application (cf characterizing part of claim 1) by dividing the location management functions associated with a mobile station into at least two parts. At least one of these is common to all the subscriber identities associated with the mobile station, and at least one part is reserved as separate for each of the subscriber identities.

This overcomes the above mentioned problem by making all identities in one and the same mobile station accessible through a single common subscriber identity or corresponding information. Moreover, this is neither known nor derivable from the prior art. Claim 1 is thus novel, inventive and industrially applicable within the meanings of Articles 33(1) - (4) PCT.

- 3) It is additionally noted that neither D1 nor D2 constitutes prior art within the meaning of Rule 64.1(b) PCT.

D1 relates to a mobile station with several service profiles per subscription (cf page 4 line 36 - page 5 line 10), which may relate to time of day etc. These service profiles are, however, different from the subscriber identities of the current application, which are rather to be compared to the single subscription of D1.

D2 (see figures 1 - 3 and abstract) relates to a mobile station with "two or more" SIMs. It is not clear if more than one may be active at any one time. If so, the station as per D2 would seem to exhibit the problem that the current application aims to overcome.

Claim 1 is thus clearly novel over the teachings of D1 and D2.

- 4) Independent claim 18 relates to a corresponding system for realizing location management functions. Independent claim 19 relates to a network element for realizing location management functions. Independent claim 22 relates to a mobile station.

These claims correspond for the various apparatus elements to method claim 1. These claims are thus also novel, inventive and industrially applicable within the meanings of Articles 33(1) - (4) PCT, essentially for the reasons set out above.

- 5) Similarly, dependent claims 2 - 17, 20 and 21 are novel, inventive and industrially applicable within the meanings of Articles 33(1) - (4) PCT owing to their dependencies on the above independent claims.

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>49261</b>	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"><b>FOR FURTHER ACTION</b></div> <div style="font-size: small;">see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</div> </div>	
International application No. <b>PCT/FI 99/01091</b>	International filing date ( <i>day/month/year</i> ) <b>29 December 1999</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>30 December 1998</b>
Applicant <b>NOKIA NETWORKS OY et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (See Box I).
  
2. ☐ Unity of invention is lacking (See Box II).
  
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 

☐ filed with the international application.  
☐ furnished by the applicant separately from the international application,  

☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.

☐ transcribed by this Authority.
  
4. With regard to the title, ☒ the text is approved as submitted by the applicant.  
☐ the text has been established by this Authority to read as follows:
  
5. With regard to the abstract,
 

☒ the text is approved as submitted by the applicant.  
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
  
6. The figure of the drawings to be published with the abstract is:
 

Figure No. 3A ☒ as suggested by the applicant. ☐ None of the figures.  
☐ because the applicant failed to suggest a figure.  
☐ because this figure better characterizes the invention.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 99/01091

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04Q 7/38, H04Q 7/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9927723 A1 (TELEFONAKTIEBOLAGET LM ERIKSSON (PUBL)), 3 June 1999 (03.06.99), page 2, line 6 - line 31, abstract --	1-22
A	WO 9962282 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)), 2 December 1999 (02.12.99), page 7, line 26 - page 14, line 29, abstract -- -----	1-22

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

3 July 2000

Date of mailing of the international search report

11.08.2000

Name and mailing address of the International Searching Authority

European Patent Office P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk

Tel(+31-70)340-2040, Tx 31 651 epo nl,

Fax(+31-70)340-3016

Facsimile No.

Authorized officer

Stefan Hansson / JA A

Telephone No.



**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

SA 265302

02/12/99

International application No.

PCT/FI 99/01091

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9927723 A1	03/06/99	AU 1357799 A	15/06/99
WO 9962282 A1	02/12/99	NONE	

# PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

## NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

BERGGREN OY AB  
P.O. Box 16  
FIN-00101 Helsinki  
FINLANDE

*Berggren Oy Ab*

24-07-2000

*Hb / vl*

Date of mailing (day/month/year) 13 July 2000 (13.07.00)		IMPORTANT NOTICE	
Applicant's or agent's file reference 49261			
International application No. PCT/FI99/01091	International filing date (day/month/year) 29 December 1999 (29.12.99)	Priority date (day/month/year) 30 December 1998 (30.12.98)	
Applicant NOKIA NETWORKS OY et al			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:  
AU,CN,JP,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:  
AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,  
GH,GM,HR,HU,ID,IL,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,  
OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW  
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on  
13 July 2000 (13.07.00) under No. WO 00/41409

### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. (41-22) 740.14.35	Authorized officer  J. Zahra  Telephone No. (41-22) 338.83.38
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The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/EPO

# PCT

## CHAPTER II

### DEMAND

under Article 31 of the Patent Cooperation Treaty:  
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA

Date of receipt of DEMAND

#### Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION

Applicant's or agent's file reference  
49261/ML/MM

International application No.

International filing date (day/month/year)

(Earliest) Priority date (day/month/year)

PCT/FI99/01091

29 December 1999 (29.12.99)

30 December 1998 (30.12.98)

Title of invention

MANAGEMENT OF MULTIPLE SUBSCRIBER IDENTITIES

#### Box No. II APPLICANT(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Telephone No.:

+358-9-51121

NOKIA NETWORKS OY  
P.O.Box 300  
FIN-00045 Nokia Group  
Finland

Facsimile No.:

+358-9-51168080

Teleprinter No.:

State (that is, country) of nationality:

Finland

State (that is, country) of residence:

Finland

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

BÄCK, Juha  
Kulosaaren puistotie 44 B 22  
FIN-00570 HELSINKI  
Finland

State (that is, country) of nationality:

Finland

State (that is, country) of residence:

Finland

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

EINOLA, Heikki  
Kaksoiskiventie 7-9 B 5  
FIN-02760 ESPOO  
Finland

State (that is, country) of nationality:

Finland

State (that is, country) of residence:

Finland

☒ Further applicants are indicated on a continuation sheet.

## Continuation of Box No. II APPLICANT(S)

*If none of the following sub-boxes is used, this sheet should not be included in the demand.*

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

HULKKONEN, Tony  
Kauppakartanonkatu 26 H 93  
FIN-00930 HELSINKI  
Finland

State *(that is, country)* of nationality:

Finland

State *(that is, country)* of residence:

Finland

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

HUOTARI, Seppo  
Albergan esplanadi 4 B 31  
FIN-02600 ESPOO  
Finland

State *(that is, country)* of nationality:

Finland

State *(that is, country)* of residence:

Finland

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

LAHTINEN, Lauri  
Kurkijoentie 7 B  
FIN-02140 ESPOO  
Finland

State *(that is, country)* of nationality:

Finland

State *(that is, country)* of residence:

Finland

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

LAITINEN, Lauri  
Tornitaso 3 A 33  
FIN-02120 ESPOO  
Finland

State *(that is, country)* of nationality:

Finland

State *(that is, country)* of residence:

Finland



Further applicants are indicated on another continuation sheet.

## Continuation of Box No. II APPLICANT(S)

*If none of the following sub-boxes is used, this sheet should not be included in the demand.*

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

LINDHOLM, Heikki  
Peräsin 3 D 2  
FIN-02320 ESPOO  
Finland

State (that is, country) of nationality:

Finland

State (that is, country) of residence:

Finland

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

RAJANIEMI, Jaakko  
Lapinrinne 2 A 11  
FIN-00180 HELSINKI  
Finland

State (that is, country) of nationality:

Finland

State (that is, country) of residence:

Finland

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

State (that is, country) of nationality:

State (that is, country) of residence:

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

State (that is, country) of nationality:

State (that is, country) of residence:

☐

Further applicants are indicated on another continuation sheet.

**Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**The following person is ☒ agent ☐ common representativeand ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*BERGGREN OY AB  
P.O. Box 16  
FIN-00101 HELSINKI  
Finland

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+358-9-693701

Facsimile No.:

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Teleprinter No.:

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION****Statement concerning amendments:\***

1. The applicant wishes the international preliminary examination to start on the basis of:

☐ the international application as originally filed

the description

☐ as originally filed☐ as amended under Article 34

the claims

☐ as originally filed☐ as amended under Article 19 (together with any accompanying statement)☐ as amended under Article 34

the drawings

☐ as originally filed☐ as amended under Article 342. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

\* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: English

☒ which is the language in which the international application was filed.☒ which is the language of a translation furnished for the purposes of international search.☒ which is the language of publication of the international application.☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.**Box No. V ELECTION OF STATES**The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter II of the PCT)*

excluding the following States which the applicant wishes not to elect:

**Box No. VI CHECK LIST**

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- |  |   |        |
|--|---|--------|
| 1. translation of international application                              | : | sheets |
| 2. amendments under Article 34   | : | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets |
| 4. copy (or, where required, translation) of statement under Article 19  | : | sheets |
| 5. letter  | : | sheets |
| 6. other ( <i>specify</i> )  | : | sheets |

For International Preliminary  
Examining Authority use only

received                      not received

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

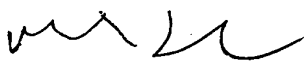
The demand is also accompanied by the item(s) marked below:

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> fee calculation sheet                             | 4. <input type="checkbox"/> statement explaining lack of signature                                  |
| 2. <input type="checkbox"/> separate signed power of attorney                            | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input type="checkbox"/> other ( <i>specify</i> ):   |

**Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**

*Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).*

BERGGREN OY AB



Markus Levlin  
Patent Agent

20 July 2000

**For International Preliminary Examining Authority use only**

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

**For International Bureau use only**

Demand received from IPEA on:

## PCT

## FEE CALCULATION SHEET

## Annex to the Demand for international preliminary examination

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">International application No.</td> <td>PCT/FI99/01091</td> </tr> <tr> <td>Applicant's or agent's file reference</td> <td>49261/ML/MM</td> </tr> </table>	International application No.	PCT/FI99/01091	Applicant's or agent's file reference	49261/ML/MM	<div style="border: 1px solid black; padding: 5px; text-align: center;"> For International Preliminary Examining Authority use only </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Date stamp of the IPEA </div>				
International application No.	PCT/FI99/01091								
Applicant's or agent's file reference	49261/ML/MM								
Applicant NOKIA NETWORKS OY									
<b>Calculation of prescribed fees</b>  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> 1. Preliminary examination fee ..... </div> <div style="width: 35%; text-align: center;"> <div style="border: 1px solid black; padding: 2px 10px;">EUR 1533</div> <div style="border: 1px solid black; padding: 2px 5px; float: right;">P</div> </div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 60%;"> 2. Handling fee <i>(Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)</i> ..... </div> <div style="width: 35%; text-align: center;"> <div style="border: 1px solid black; padding: 2px 10px;">EUR 147</div> <div style="border: 1px solid black; padding: 2px 5px; float: right;">H</div> </div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 60%;"> 3. Total of prescribed fees  Add the amounts entered at P and H  and enter total in the TOTAL box..... </div> <div style="width: 35%; text-align: center;"> <div style="border: 1px solid black; padding: 2px 10px; margin-bottom: 5px;">EUR 1680</div> <div style="border: 1px solid black; padding: 2px 10px;">TOTAL</div> </div> </div>									
<b>Mode of Payment</b>  <table style="width: 100%;"> <tr> <td><input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)</td> <td><input type="checkbox"/> cash</td> </tr> <tr> <td><input type="checkbox"/> cheque</td> <td><input type="checkbox"/> revenue stamps</td> </tr> <tr> <td><input type="checkbox"/> postal money order</td> <td><input type="checkbox"/> coupons</td> </tr> <tr> <td><input checked="" type="checkbox"/> bank draft</td> <td><input type="checkbox"/> other (specify):</td> </tr> </table>		<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash	<input type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps	<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons	<input checked="" type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):
<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash								
<input type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps								
<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons								
<input checked="" type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):								
<b>Deposit Account Authorization</b> <i>(this mode of payment may not be available at all IPEAs)</i>  The IPEA/ <u>EPO</u> <input type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account.  <input type="checkbox"/> <i>(this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit)</i> is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.									
Deposit Account Number _____	Date (day/month/year) _____								
Signature _____									



## PCT REQUEST

49261

Original (for SUBMISSION) - printed on 28.12.1999 01:02:00 PM

<b>0</b>	<b>For receiving Office use only</b>	
<b>0-1</b>	International Application No.	
<b>0-2</b>	International Filing Date	
<b>0-3</b>	Name of receiving Office and "PCT International Application"	
<b>0-4</b>	<b>Form - PCT/RO/101 PCT Request</b>	
<b>0-4-1</b>	Prepared using	<b>PCT-EASY Version 2.90 (updated 15.12.1999)</b>
<b>0-5</b>	<b>Petition</b> The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
<b>0-6</b>	<b>Receiving Office (specified by the applicant)</b>	<b>National Board of Patents and Registration (Finland) (RO/FI)</b>
<b>0-7</b>	<b>Applicant's or agent's file reference</b>	<b>49261</b>
<b>I</b>	<b>Title of invention</b>	<b>MANAGEMENT OF MULTIPLE SUBSCRIBER IDENTITIES</b>
<b>II</b>	<b>Applicant</b>	
<b>II-1</b>	This person is:	<b>applicant only</b>
<b>II-2</b>	Applicant for	<b>all designated States except US</b>
<b>II-4</b>	Name	<b>NOKIA NETWORKS OY</b>
<b>II-5</b>	Address:	<b>P.O. Box 300 FIN-00045 Nokia Group Finland</b>
<b>II-6</b>	State of nationality	<b>FI</b>
<b>II-7</b>	State of residence	<b>FI</b>
<b>II-8</b>	Telephone No.	<b>+358-9-51121</b>
<b>II-9</b>	Facsimile No.	<b>+358-9-51168080</b>
<b>III-1</b>	<b>Applicant and/or inventor</b>	
<b>III-1-1</b>	This person is:	<b>applicant and inventor</b>
<b>III-1-2</b>	Applicant for	<b>US only</b>
<b>III-1-4</b>	Name (LAST, First)	<b>BÄCK, Juha</b>
<b>III-1-5</b>	Address:	<b>Kulosaaren puistotie 44 B 22 FIN-00570 Helsinki Finland</b>
<b>III-1-6</b>	State of nationality	<b>FI</b>
<b>III-1-7</b>	State of residence	<b>FI</b>

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III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	EINOLA, Heikki
III-2-5	Address:	Kaksoiskiventie 7-9 B 5 FIN-02760 Espoo Finland
III-2-6	State of nationality	FI
III-2-7	State of residence	FI
III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	HULKKONEN, Tony
III-3-5	Address:	Kauppakartanonkatu 26 H 93 FIN-00930 Helsinki Finland
III-3-6	State of nationality	FI
III-3-7	State of residence	FI
III-4	Applicant and/or inventor	
III-4-1	This person is:	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	HUOTARI, Seppo
III-4-5	Address:	Albergan esplanadi 4 B 31 FIN-02600 Espoo Finland
III-4-6	State of nationality	FI
III-4-7	State of residence	FI
III-5	Applicant and/or inventor	
III-5-1	This person is:	applicant and inventor
III-5-2	Applicant for	US only
III-5-4	Name (LAST, First)	LAHTINEN, Lauri
III-5-5	Address:	Kurkijoentie 7 B FIN-02140 Espoo Finland
III-5-6	State of nationality	FI
III-5-7	State of residence	FI
III-6	Applicant and/or inventor	
III-6-1	This person is:	applicant and inventor
III-6-2	Applicant for	US only
III-6-4	Name (LAST, First)	LAITINEN, Lauri
III-6-5	Address:	Tornitaso 3 A 33 FIN-02120 Espoo Finland
III-6-6	State of nationality	FI
III-6-7	State of residence	FI

## PCT REQUEST

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III-7	<b>Applicant and/or inventor</b>	
III-7-1	This person is:	applicant and inventor
III-7-2	Applicant for	US only
III-7-4	Name (LAST, First)	LINDHOLM, Heikki
III-7-5	Address:	Peräsin 3 D 2 FIN-02320 Espoo Finland
III-7-6	State of nationality	FI
III-7-7	State of residence	FI
III-8	<b>Applicant and/or inventor</b>	
III-8-1	This person is:	applicant and inventor
III-8-2	Applicant for	US only
III-8-4	Name (LAST, First)	RAJANIEMI, Jaakko
III-8-5	Address:	Lapinrinne 2 A 11 FIN-00180 Helsinki Finland
III-8-6	State of nationality	FI
III-8-7	State of residence	FI
IV-1	<b>Agent or common representative; or address for correspondence</b>	
	The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name	BERGGREN OY AB
IV-1-2	Address:	P.O. Box 16 FIN-00101 Helsinki Finland
IV-1-3	Telephone No.	+358-9-693701
IV-1-4	Facsimile No.	+358-9-6933944
IV-1-5	e-mail	email.box@berggren.elisa.fi
V	<b>Designation of States</b>	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW SD SL SZ TZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT  EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT  EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT  OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT

## PCT REQUEST

49261

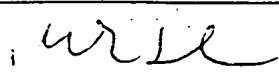
Original (for SUBMISSION) - printed on 28.12.1999 01:02:00 PM

V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AE AL AM AT AU AZ BA BB BG BR BY CA CH&LI CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW	
V-5	<b>Precautionary Designation Statement</b> In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.		
V-6	Exclusion(s) from precautionary designations	NONE	
VI-1	Priority claim of earlier national application		
VI-1-1	Filing date	30 December 1998 (30.12.1998)	
VI-1-2	Number	982823	
VI-1-3	Country	FI	
VI-2	<b>Priority document request</b> The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Check list	number of sheets	electronic file(s) attached
VIII-1	Request	5	-
VIII-2	Description	15	-
VIII-3	Claims	3	-
VIII-4	Abstract	1	49261.txt
VIII-5	Drawings	5	-
VIII-7	TOTAL	29	
VIII-8	Accompanying items	paper document(s) attached	electronic file(s) attached
VIII-8	Fee calculation sheet	✓	-
VIII-9	Separate signed power of attorney	✓	-
VIII-10	Copy of general power of attorney	✓	-
VIII-16	PCT-EASY diskette	-	diskette
VIII-17	Other (specified):	Copy of Official Action in FI 982823	-
VIII-18	Figure of the drawings which should accompany the abstract	3a	

## PCT REQUEST

49261

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VIII-19	Language of filing of the international application	English
IX-1	Signature of applicant or agent	
IX-1-1	Name	BERGGREN OY AB
IX-1-2	Name of signatory	Markus Levlin
IX-1-3	Capacity	Patent Agent

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

## FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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**PCT (ANNEX - FEE CALCULATION SHEET)**

49261

Original (for SUBMISSION) - printed on 28.12.1999 01:02:00 PM

(This sheet is not part of and does not count as a sheet of the international application)

<b>0</b>	<b>For receiving Office use only</b>	
0-1	International Application No.	
0-2	Date stamp of the receiving Office	
0-4	<b>Form - PCT/RO/101 (Annex)</b>	
0-4-1	PCT Fee Calculation Sheet Prepared using	<b>PCT-EASY Version 2.90 (updated 15.12.1999)</b>
0-9	Applicant's or agent's file reference	<b>49261</b>
2	Applicant	<b>NOKIA NETWORKS OY, et al.</b>
12	<b>Calculation of prescribed fees</b>	fee amount/multiplier      total amounts (FIM)
12-1	Transmittal fee T	⇒ 800
12-2	Search fee S	⇒ 5 618,71
12-3	International fee Basic fee (first 30 sheets) b1	2 455,59
12-4	Remaining sheets	0
12-5	Additional amount (X)	59,46
12-6	Total additional amount b2	0
12-7	b1 + b2 = B	2 455,59
12-8	Designation fees Number of designations contained in international application	83
12-9	Number of designation fees payable (maximum 10)	10
12-10	Amount of designation fee (X)	564,84
12-11	Total designation fees D	5 648,4
12-12	PCT-EASY fee reduction R	-755,11
12-13	Total International fee (B+D-R) I	⇒ 7 348,88
12-14	Fee for priority document Number of priority documents requested	1
12-15	Fee per document (X)	422
12-16	Total priority document fee P	⇒ 422
12-17	<b>TOTAL FEES PAYABLE (T+S+I+P)</b>	⇒ 14 189,59
12-19	Mode of payment	<b>cheque</b>

**VALIDATION LOG AND REMARKS**

13-2-6	Validation messages Contents	<b>Green?</b> <b>Reference number for attached copy of general power of attorney not indicated.</b>
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**PCT (ANNEX - FEE CALCULATION SHEET)**

49261

Original (for SUBMISSION) - printed on 28.12.1999 01:02:00 PM

13-2-7	Validation messages Fees	<b>Green?</b> Please verify that modified fee amounts are correct.
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**PCT (ANNEX - FEE CALCULATION SHEET)**

49261

Original (for **SUBMISSION**) - printed on 28.12.1999 01:02:00 PM

(This sheet is not part of and does not count as a sheet of the international application)

<b>0</b>	<b>For receiving Office use only</b>		
0-1	International Application No.		
0-2	Date stamp of the receiving Office		
0-4	<b>Form - PCT/RO/101 (Annex)</b>		
0-4-1	PCT Fee Calculation Sheet Prepared using	<b>PCT-EASY Version 2.90 (updated 15.12.1999)</b>	
0-9	Applicant's or agent's file reference	<b>49261</b>	
2	Applicant	<b>NOKIA NETWORKS OY, et al.</b>	
12	<b>Calculation of prescribed fees</b>	fee amount/multiplier	total amounts (FIM)
12-1	Transmittal fee T	⇒	<b>800</b>
12-2	Search fee S	⇒	<b>5 618,71</b>
12-3	International fee		
	Basic fee (first 30 sheets) b1	<b>2 455,59</b>	
12-4	Remaining sheets	<b>0</b>	
12-5	Additional amount (X)	<b>59,46</b>	
12-6	Total additional amount b2	<b>0</b>	
12-7	b1 + b2 = B	<b>2 455,59</b>	
12-8	Designation fees		
	Number of designations contained in international application	<b>83</b>	
12-9	Number of designation fees payable (maximum 10)	<b>10</b>	
12-10	Amount of designation fee (X)	<b>564,84</b>	
12-11	Total designation fees D	<b>5 648,4</b>	
12-12	PCT-EASY fee reduction R	<b>-755,11</b>	
12-13	Total International fee (B+D-R) I	⇒	<b>7 348,88</b>
12-14	Fee for priority document		
	Number of priority documents requested	<b>1</b>	
12-15	Fee per document (X)	<b>422</b>	
12-16	Total priority document fee P	⇒	<b>422</b>
12-17	<b>TOTAL FEES PAYABLE (T+S+I+P)</b>	⇒	<b>14 189,59</b>
12-19	Mode of payment	<b>cheque</b>	

**VALIDATION LOG AND REMARKS**

13-2-6	Validation messages Contents	<b>Green?</b> <b>Reference number for attached copy of general power of attorney not indicated.</b>
--------	------------------------------	--



**PCT (ANNEX - FEE CALCULATION SHEET)**

49261

Original (for SUBMISSION) - printed on 28.12.1999 01:02:00 PM

13-2-7	Validation messages Fees	<b>Green?</b> <b>Please verify that modified fee amounts are correct.</b>
--------	-----------------------------	--

Original (for **SUBMISSION**) - printed on 28.12.1999 01:02:00 PM**PCT-EASY INFORMATION SHEET**

(For applicant use only, DO NOT submit this sheet with the international application)

**VALIDATION LOG**

	Contents
Green?	Reference number for attached copy of general power of attorney not indicated.
Green?	Fees
Green?	Please verify that modified fee amounts are correct.

**Before submitting the International Application, please carefully verify that:**

- the information contained on printed Request form is correct;
- Box IX of the Request form has been signed;
- all elements of the international application as indicated in Box VIII of the Request form have been attached; and,
- the diskette containing the PCT-EASY zip file of the International Application has been enclosed and has been clearly labeled "PCT-EASY", with the applicant's or agent's file reference, and the first applicant's name.

**ATTENTION**

DO NOT modify any indications on the Request form printout. The attached PCT-EASY application has been locked. If an error or an omission is discovered at this time, you must copy the submitted application as a template and make the change or correction in a new application (using the submitted application as a template). You may create such a template by copying the submitted application from the "Stored Forms" folder to the "New PCT Forms" folder. Open the new (.OWO) file created in the "New PCT Forms" folder, correct the errors and proceed with the submission process again.

<b>PATENTTIHAKEMUS</b> <b>NRO</b> Appln. No. 982823	<b>LUOKITUS</b> Classification H04Q 7/38, 7/32
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<b>TUTKITTU AINEISTO</b> Researched material
<b>Patenttijulkaisukokoelma (FI, SE, NO, DK, DE, CH, EP, WO, GB, US), tutkitut luokat</b> Published patent specification researched classes
<b>Tiedonhaut ja muu aineisto</b> Data search & other material Haku Epodoc tietokannassa termeillä: subscriber w identity Haku fulltext TXTE tietokannassa termeillä: (mobility w management) and identity

<b>VIITEJULKAISUT</b> Reference publications		
<b>Kategoria*)</b> Category	<b>Julkaisun tunnistetiedot</b> Identification data	<b>Koskee vaatimuksia</b>
A	EP 0 828 354 lk H04B 7/185, ICO Services Ltd	Relevant to claims
<p>*) X Patentoitavuuden kannalta merkittävä julkaisu yksinään tarkasteltuna  Y Patentoitavuuden kannalta merkittävä julkaisu, kun otetaan huomioon tämä ja yksi tai useampi samaan kategoriaan kuuluva julkaisu  A Yleistä tekniikan tasoa edustava julkaisu, ei kuitenkaan patentoitavuuden este</p> <p>A) Technological background, not a novelty bar.</p>		
<b>Päiväys</b> Date 15.12.1999	<b>Tutkija</b> Examiner J Saranka	